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### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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of 1

Complete if Known				
Application Number	10/810,952			
Filing Date	03/26/2004			
First Named Inventor	PLESKACH			
Art Unit				
Examiner Name				
Attorney Docket Number	7162-0119			

			U. S. PATEN1	DOCUMENTS		
Examiner Cite No.'		Document Number  Number-Kind Code <sup>2</sup> (f known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		US- 10/657,054		Pleskach, et al.	Filed: 09/05/2003	
1		<sup>US-</sup> 3,614,554	10/19/1971	Shield, et al.	-	
		US- 5,070,317	12/3/1991	Bhagat	:	
		US- 5,249,039	6/19/2001	Harvey, et al.		
		<sup>US-</sup> 6,094,123	7/25/2000	Roy		
		US- 6,292,084	9/18/2001	Choi, et al.		
		<sup>US-</sup> 6,303,971	10/16/2001	Rhee		
		US- 6,445,271	9/3/2002	Johnson		
		US- 6,498,557	12/24/2002	Johnson		
am		<sup>US-</sup> 6,535,098	3/18/2003	Yeo, et al.		
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 FOREIGN PATENT DOCUMENTS								
Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages				
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known					
Application Number	10/810,952				
Filing Date	Mar. 26, 2004				
First Named Inventor	PLESKACH				
Art Unit	2832				
Examiner Name	MAI, Anh T.				
Attorney Docket Number	7162-0119				

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.	Document Number  Number-Kind Code <sup>2 (f Innom)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
Im		<sup>US-</sup> 3,581,243	05/25/1971	ALFORD	
W		<sup>US-</sup> 5,714,112	02/03/1998	HAZEYAMA, et al.	
		<sup>US-</sup> 3,681,716	08/01/1972	CHIRON, et al.	
		<sup>US-</sup> 4,638,271	01/20/1987	JECKO, et al.	
m		<sup>US-</sup> 4,967,171	10/30/1990	BAN, et al	
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(m)		JP 2000307362	11/02/2000	MITSUBISHI ELEC		
		JP 10/190321	07/21/1998	ŅEC CORP		
		JP 56-123102	09/28/1981	MITSUBISHI ELEC		
		JP 05-211402	08/20/1983	FURUKAWA ELEC		
$\Lambda \setminus 1$		JP 07-015218	01/17/1995	FUJI ELEC		
WW		JP 08-154006	06/11/1996	MURATA MFG		

Examiner Signature Date Considered 7/27/55

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of 3

Complete if Known					
Application Number	10/810,952				
Filing Date	Mar. 26, 2004				
First Named Inventor	PLESKACH				
Art Unit	2832				
Examiner Name	MAI, Anh T.				
Attorney Docket Number	7162-0119				

	U. S. PATENT DOCUMENTS							
Examiner Cite Initials* No.1		Document Number  Number-Kind Code <sup>2</sup> (* known)	Publication Date  MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear			
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FOREIGN PATENT DOCUMENTS							
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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	Τ٩	
lm		WO 01-01453 A2	01/04/2001	SUN MICROSYS			
		EP 1 108 533	06/20/2001	KONICA CORP			
		EP 0 754 660 A1	01/22/1997	TDK CORP			
	,	EP 1 089 374 A2	04/04/2001	KABUSHIKI KAISH			
um		JP 08 307117	11/22/1996	TASIE			

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				Application Number	10/810,952	
INF	ORMATION	DIS	CLOSURE	Filing Date	Mar. 26, 2004	
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(Use as many sheets as necessary)		Examiner Name	MAI, Anh T.			
Sheet	3	of	3	Attorney Docket Number	7162-0119	

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Examiner Initials*	Cite No.1	NON PATENT LITERATURE DOCUMENTS  Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
am/	_	ITOH, T.; et al: "Metamaterials Structures, Phenomena and Applications" IEEE Transactions on Microwave Theory and Techniques; April, 2005;	
		[Online] Retrieved from the Internet: URL:www.mtt.org/publications/ Transactions/CFP_Metamaterials.pdf>	
am		KIZILTAS, G.; et al: "Metamaterial design via the density method" IEEE Antennas and Propagation Society Int'l Symposium 2002, vol. 1, 16 June 2002 pp 748-751, Piscataway	
am		SALAHUN, E.; et al: "Ferromagnetic composite-based and magnetically-tunable microwave devices" IEEE MTT-S Microwave Symposium Digest, Vol. 2, 2 Jun 2002 pp1185-1188	
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Examiner		Date 9/22/6	-

Examiner Signature Date Considered 9/27/25	 		A		
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Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1449/PTO **Application Number** Filing Date INFORMATION DISCLOSURE First Named Inventor **PLESKACH** STATEMENT BY APPLICANT Art Unit (Use as many sheets as necessary) Examiner Name Attorney Docket Number 7162-0119 of 1

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Examiner Initials	Cite No.1	Document Number  Number-Kind Code <sup>2 (f Izzoen)</sup>	Publication Date MM-DD-YYYY		Name of Patentee or plicant of Cited Document	Pages, Columns, Lines, W Relevant Passages or Rele Figures Appear	here vant	
and		<sup>US-</sup> 5,781,091	07/14/1998	Krone,	et al.			
W -		<sup>US-</sup> 6,054,914	04/25/2000					
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